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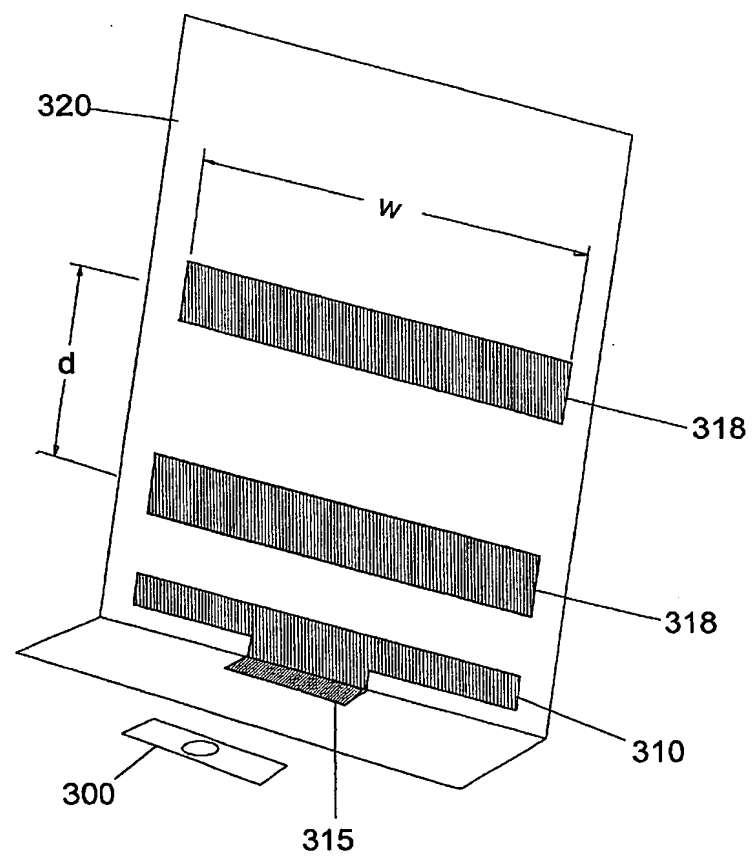
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0221111.8 12 September 2002 (12.09.2002) GB</p> <p>(71) Applicant (for all designated States except US): RF TAGS LIMITED [GB/GB]; Village Farm, Church Road, Weston-on-the-Green, Bicester, Oxfordshire OX25 3QP (GB).</p> | <p>(71) Applicant and
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(75) Inventor/Applicant (for US only): FOGG, Martin [GB/GB]; RF Tags Limited, Village Farm, Church Road, Weston-on-the-Green, Bicester, Oxfordshire OX25 3QP (GB).</p> <p>(74) Agents: HAGMANN-SMITH, Martin, Peter et al.; Marks & Clerk, 4220 Nash Court, Oxford Business Park South, Oxford, Oxfordshire OX4 2RU (GB).</p> <p>(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,</p> |
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(54) Title: RADIO FREQUENCY IDENTIFICATION TAGGING



(57) **Abstract:** A RFID tag or label comprises a RFID tag module (comprising an electronic identification circuit and a coupling means) and an antenna structure coupled to the coupling means. The RFID tag module is separate from, separable or arranged to be severable from, the antenna structure. The tag module can be placed in or on an object and the antenna structure in or on packaging material for use with the object. A patch antenna type RFID tag antenna structure has a ground plane spaced from the patch antenna so as to increase the range of the tag. The ground plane is not substantially larger than, and electrically insulated from, the patch antenna. The ground plane is flexible, so the RFID tag structure can be worn by a human, and can be incorporated into a piece of clothing. A RFID antenna structure for use with a tag reader is made flat and robust so that it can be mounted on the ground to be walked upon or driven over. A bi-directional YAGI type RFID tag antenna structure has director elements on two opposite sides so that the YAGI antenna radiates in two opposite directions. An object includes a gain increasing metallic structure for increasing the gain of a RFID tag when placed near the object so as to form a RFID tag antenna structure.

WO 2004/025554 A1